

II. Amendments to the Claims

In compliance with the Revised Amendment Format, the text of all claims under examination is submitted, and the status of each is identified. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. – 7. (Canceled)

8. (Previously presented) A labeled complex according to any one of claim 35 through claim 37, wherein said first and second labeled substances are selected from the group consisting of a fluorescent substance, a mineral phosphate, a luminescent substance and a chemiluminescent substance.

9. (Previously presented) A labeled complex according to claim 8, wherein the first and second labeled substances are luminescent and can be discriminated by a method selected from the group consisting of excitation wavelength, emission wavelength, emission intensity, degree of emission polarization, emission phase and emission lifetime.

10. (Previously presented) A labeled complex according to claim 9, wherein said carrier is bonded to the target receptor by an avidin, biotin bond.

11. (Previously presented) A labeled complex according to any one of claim 35 through claim 37, wherein said carrier is a magnetic particle, which can be controlled remotely.

12.- 34. (Canceled)

35. (Currently Amended) A labeled complex, comprising:
a carrier particle selected from the group consisting of a magnetic particle, charged particle, dielectric, chemotactic microorganism, synthetic resin bead, latex particle, glass bead, gel substance, and a metallic particle;
a number of target receptors of length up to 10 microns ~~1mm~~, each receptor having a first end and a second end,
wherein the first end of each receptor is bonded with said carrier particle,

wherein said target receptors are single-stranded nucleic acids of predetermined base sequence,
wherein the single-stranded nucleic acid is a base sequence of a gene, a base sequence of mRNA, a base sequence of tRNA, a base sequence of rRNA, a base sequence obtained by denaturation of a double stranded nucleic acid or a base sequence obtained by synthesis,
and

wherein said target receptors bonded with a single carrier particle have the same or different base sequences;

and

at least a first type and a second type of labeled substance, each labeled substance bonded to a fraction of the number of target receptors at the second end of each receptor, thereby forming a labeled complex having a predetermined molar ratio of the types of labeled substances;

wherein the number and length of target receptors bonded to said carrier particle is such that a major influence by energy movement or quenching among the labeled substances does not occur, thereby enhancing discrimination by stable emission.

36. (Currently Amended) A labeled complex, comprising:

a carrier particle selected from the group consisting of a magnetic particle, charged particle, dielectric, chemotactic microorganism, synthetic resin bead, latex particle, glass bead, gel substance, and a metallic particle;

a number of target receptors of length up to 10 microns ~~1mm~~, wherein said target receptors are double stranded nucleic acids of predetermined base sequence, each double stranded nucleic acid having a first single strand and a second single strand, each single strand having a first and a second end, wherein the target receptor has a first end of a first single strand bonded with said carrier, and wherein said target receptors bonded with a single carrier particle have the same or different base sequences; wherein the double-stranded nucleic acid is a base sequence of a gene, a base sequence of mRNA, a base sequence of tRNA, a base sequence of rRNA, a base sequence obtained by using the polymerase chain reaction, a base sequence having a recognition sequence of a restriction enzyme at one end, a base sequence generated by annealing, or a base sequence generated by DNA ligase;

and

at least a first type and a second type of labeled substance, each labeled substance bonded to a fraction of the number of target receptors at the second end of a second single strand, thereby forming a labeled complex having a predetermined molar ratio of the types of labeled substances;

wherein the number and length of target receptors bonded to said carrier particle is such that a major influence by energy movement or quenching among the labeled substances does not occur, thereby enhancing discrimination by stable emission.

37. (Currently Amended) A labeled complex, comprising:

a carrier particle selected from the group consisting of a magnetic particle, charged particle, dielectric, chemotactic microorganism, synthetic resin bead, latex particle, glass bead, gel substance, and a metallic particle;

a number of target receptors of length up to 10 microns ~~1mm~~, wherein said target receptors are double stranded nucleic acids having a predetermined base sequence, each double stranded nucleic acid having a first single strand and a second single strand, each single strand having a first and a second end, wherein the target receptor has a second end of a first single strand bonded with said carrier, wherein said target receptors bonded with a single carrier particle have the same or different base sequences; wherein the double-stranded nucleic acid is a base sequence of a gene, a base sequence of mRNA, a base sequence of tRNA, a base sequence of rRNA, a base sequence obtained by using the polymerase chain reaction, a base sequence having a recognition sequence of a restriction enzyme at one end, a base sequence generated by annealing, or a base sequence generated by DNA ligase;

and

at least a first type and a second type of labeled substance, each labeled substance bonded to a fraction of the number of target receptors at the first end of a first single strand, thereby forming a labeled complex having a predetermined molar ratio of the types of labeled substances;

wherein the number and length of target receptors bonded to said carrier particle is such that a major influence by energy movement or quenching among the labeled substances does not occur, thereby enhancing discrimination by stable emission.